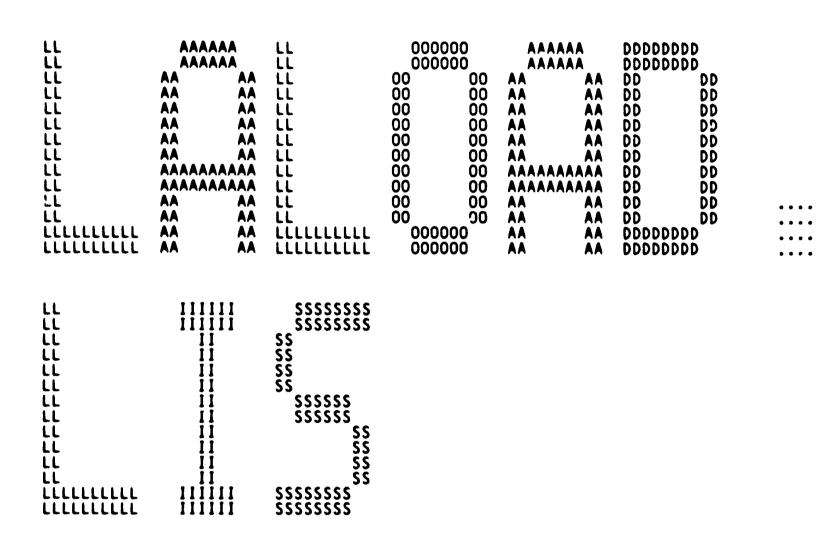
MMM         MMM           MMM         MMM           MMM         MMM           MMM         MMMMM           MMM         MMM           MMM         MMM	10000000000000000000000000000000000000	LLL LLL LLL LLL LLL LLL LLL LLL LLL LL	DDD DDD DDD DDD DDD DDD DDD DDD DDD DD	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
MMM MMM MMM MMM			DDDDDDDDDDDD DDDDDDDDDDDDD	RRR RRR RRR RRR



H 10
LALOAD
Table of contents

(2) 47 DECLARATIONS
(3) 134 MAIN PROGRAM
(4) 257 CVTUPC - CONVERT LINE TO UPPER CASE

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TITLE LALOAD ...

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; FACILITY: LPA-11 UTILITY PROGRAMS

ABSTRACT:

THIS PROGRAM PROVIDES AN OPERATOR INTERFACE TO LOAD LPA-11 MICROCODE. THIS PROGRAM, READS OPERATOR COMMANDS AND SENDS LOAD REQUESTS TO THE LPA-11 LOADER PROCESS.

ENVIRONMENT: USER MODE

AUTHOR: STEVE BECKHARDT, CREATION DATE: 9-0CT-78

MODIFIED BY:

, : VERSION

11 12 13

LAL VO4 DECLARATIONS

```
16-SEP-1984 01:56:34 VAX/VMS Macro V04-00 
5-SEP-1984 01:53:31 [MCLDR.SRC]LALOAD.MAR;1
```

: BUFFER FOR INPUT AND OUTPUT

Page 2 (2)

LAL VO4

```
0000
0000
0000
                                     .SBTTL DECLARATIONS
                       : INCLUDE FILES:
             0000
             0000
0000
0000
0000
0000
0000
0000
                             MACROS:
                             EQUATED SYMBOLS:
00000061
                           LOWER_A = ^X61
                                                                    ; LOWERCASE A
                       60
             0000
000007A
             0000
                           LOWER_Z = ^X7A
                                                                    ; LOWERCASE Z
             0000
                       62
             ŎŎŎŎ
             ŎŎŎŎ
                           ; OWN STORAGE:
                       64
             ŎŎŎŎ
             0000
                       66
67
       0000000
                                      .PSECT LPADATA, LONG
             0000
             ŎŎŎŎ
                       69
70
71
                                               FAC = GET,-
FNM = <SYS$INPUT>,-
RAT = CR
                           INFAB: $FAB
             0000
             0000
                       72
73
74
75
             0050
                                               FAC = PUT,-
FNM = <SYS$OUTPUT>,-
RAT = CR
             0050
                           OUTFAB: $FAB
             0050
             0050
                       76
77
             OOAO
                                               FAB = INFAB,-
PBF = PROMPT,-
PSZ = PROMPTSZ,-
             OAO
                           INRAB: $RAB
             OAO
             00A0
             DAO
                       80
                                                ROP = <CCO,PMT>,-
                                               UBF = BUFFER,-
USZ = 132
             00A0
             00A0
             00E4
             00E4
                          OUTRAB: $RAB
                                                FAB = OUTFAB
                          DEVDESC:
                                                                    ; DEVICE DESCRIPTOR
00000130
                       88
                                     .BLKQ
             0130
            0130
                       90
91
                          DEVCHAN:
                                                                    ; DEVICE CHANNEL
00000132
             0132
```

93 BUFFER: .BLKB

256

00000232

0132

Page

(Ź)

2F 20 3A

00000003

006A

006D

LALOAD

V04-000

```
16-SEP-1984 01:56:34 VAX/VMS Macro V04-00 5-SEP-1984 01:53:31 [MCLDR.SRC]LALOAD.MAR;1
                                  DECLARATIONS
                                    0000000
                                                            .PSECT LPACODE, NOWRT, LONG
                                        0000
                                        ŎŎŎŎ
                                                   BUFFERDSC:
                                                                                     : BUFFER DESCRIPTOR
                                        ŎŎŎŎ
                                                            .LONG
                             00000100
                                                                     256
                             000001321
                                                                    BUFFER
                                        0004
                                                            .LONG
                                        0008
                                               101 DEFDEVDESC:
                                                                                    : DEFAULT DEVICE NAME DESCRIPTOR
                                               102
                             00000004
                                                            LONG
                                        0008
                                                                    DEFDEVSZ
                             000000281
                                        0000
                                                            . LONG
                                                                    DEFDEV
                             . d0000000
                                        0010
                                               105 SWTBL:
                                                            .LONG
                                                                    MRSWSIZ ; SWITCH TABLE
                             000000411
                                               106
                                        0014
                                                            .LONG
                                                                    MRSW
                             000000E'
                                                            .LONG
                                                                    ADSWSIZ
                             0000004E' 001C
0000000E' 0020
0000005C' 0024
                                               108
                                                            .LONG
                                                                     ADSW
                                               109
                                                            .LONG
                                                                    DASWSIZ
                                               110
                                                            .LONG
                                                                    DASW
                                               111
                          30 41 41 40
                                               112 DEFDEV: .ASCII 'LAAO'
                                                                                    : DEFAULT DEVICE NAME
                             00000004
                                               113 DEFDEVSZ = .-DEFDEV
                                               114
                3E 44 41 4F 4C 41 4C
                                        002C
0033
                                               115 PROMPT: .ASCII 'LALOAD>'
                                                                                   ; PROMPT STRING
                             00000007
                                               116 PROMPTSZ = .-PROMPT
                                        0033
                                               117
                                               119 ASCII 'Invalid switch'; INVALID SWITCH MESSAGE
                                        0033
74 69 77 73 20 64 69 6C 61 76 6E 49
                                68 63
                                        003F
                             3000000E
                                       0041
                                               120 INVSWMSGSZ = .-INVSWMSG
                                        0041
53 45 55 51 45 52 5F 49 54 4C 55 4D
                                               122 MRSW:
                                        0041
                                                            .ASCII 'MULTI_REQUEST' ; SWITCH NAMES
                                        004D
                             0000000
                                       004E
                                               123 MRSWSIZ = .-MRSW
                                        004E
54 49 47 49 44 5F 47 4F 4C 41 4E 41
                                               125 ADSW: .ASCII 'ANALOG_DIGITAL'
                                       004E
                                       005A
                             000000E
                                       005C
                                               126 ADSWSIZ = .-ADSW
                                        005C
4C 41 4E 41 5F 4C 41 54 49 47 49 44
                                               128 DASW: .ASCII 'DIGITAL_ANALOG'
                                       005C
                                       0068
                             000000E
                                       006A
                                               129 DASWSIZ = .-DASW
                                               130
                                        006A
```

: TERMINATORS TABLE

131 TRMS: .ASCII ': /'

132 NTRMS = .-TRMS

Page

LALOAD

V04-000

```
16-SEP-1984 01:56:34 VAX/VMS Macro V04-00 5-SEP-1984 01:53:31 [MCLDR.SRCJLALOAD.MAR;1
                                          134
135
136
137
138
139
                                                         .SBTTL MAIN PROGRAM
                                  006D
                                  006D
                                               ; FUNCTIONAL DESCRIPTION:
                                  006D
                                                         THIS IS THE MAIN PROGRAM FOR THIS PROCESS. IT PROMPTS FOR INPUT, READS THE INPUT, PARSES IT, AND THEN CALLS THE ROUTINE WHICH SENDS THE LOAD REQUEST OVER A MAILBOX.
                                  006D
                                  006D
                                  006D
                                  006D
                                  006D
                                                  CALLING SEQUENCE:
                                  006D
                                  0060
                                                         ENTERED WHEN PROGRAM IS STARTED
                                  006D
                                  006D
                                          146
                                                  INPUT PARAMETERS:
                                  006v
                                  006D
                                           148
                                                         NGNE
                                  006D
                                  006D
                                                  OUTPUT PARAMETERS:
                                          150
                                          151
152
153
                                  006D
                                  006D
                                                         NONE
                                  006D
                                  006D
                                          154 ;--
                                          155
                                  006D
                           01FC
                                  006D
                                          156
                                                         .ENTRY START, ^M<R2.R3.R4.R5.R6.R7.R8>
                                  006F
                                          157
                                  006F
                                          158
                                                          : OPEN INPUT AND OUTPUT FILES AND CONNECT RABS
                                                         SOPEN
                                  006F
                                          159
                                                                            FAB = INFAB
                   49 50
                             E9
                                  0070
                                          160
                                                         BLBC
                                                                   RO.13$
                                  007F
                                           161
                                                         SOPEN
                                                                            FAB = OUTFAB
                   39 50
                             E9
                                  008C
                                          162
                                                         BLBC
                                                                   RO,13$
                                  008F
                                          163
                                                         $CONNECT
                                                                            RAB = INRAB
                   29 50
                                  009C
                                          164
                                                         BLBC
                                                                   RO,13$
                                  009F
                                          165
                                                         SCONNECT
                                                                            RAB = OUTRAB
                   19 50
                             E9
                                  00AC
                                                                  RO.13$
                                          166
                                                         BLBC
                                  00AF
                                          167
                                          168 10$:
                                  00AF
                                                           GET AN INPUT LINE
                                                         $GET
                                                                   RAB = INRAB
                                  00AF
                                          169
      00000000'8F
                                                                   RO, #RMS$_EOF
                             D1
                                  OOBC
                                          170
                                                         CMPL
                                                                                                  END OF FILE?
                             13
                                  0003
                                          171
                                                                   14$
                                                         BEQL
                                                                                                  YES
                   06 50
                             E8
                                  0005
                                          172
                                                         BLBS
                                                                   RO,15$
                                                                                                : SUCCESS
                                          173
                                  0008
                                          174 13$: 175 14$:
                    00E0
                                  8300
                                                         BRW
                                                                   100$
                                                                                                : ERROR
                             31
                    OODA
                                  00CB
                                                         BRW
                                                                   98$
                                                                                                : EXIT NORMALLY
                                  00CE
                                          176
                                          177 15$:
                                  00CE
                                                         ; GET SIZE OF INPUT LINE
            000000C5.E
      50
                                  OOCE
                                          178
                                                         MOVW
                                                                   INRAB+RAB$W_RSZ,RO
                             13
                                          179
                       D8
                                  00D5
                                                         BEQL
                                                                                                : EMPTY LINE - REPROMPT
                                  0007
                                          180
                                                          SKIP LEADING BLANKS
SKPC #AA' ',RO,BUFFER
                                  00D7
                                          181
                             3B
13
00000132'EF
                 50
                                  00D7
                                                         SKPC
                                          182
                                  OODF
                                                                   105
                                          183
                                                         BEQL
                                                                                                  EMPTY LINE - REPROMPT
                 52
54
                       ŠŎ
                             7Ď
                                                                   RO,R2
                                  00E1
                                          184
                                                         MOVQ
                                                                                                  MOVE SIZE AND ADDRESS TO R2,R3
                       50
                             7D
                                          185
                                  00E4
                                                         PVOM
                                                                   RO.R4
                                                                                                  AND ALSO TO R4,R5
                             30
                     0002
                                  00E7
                                          186
                                                         BSBW
                                                                   CVTUPC
                                                                                                  CONVERT LINE TO UPPER CASE
                                          187
                                  00EA
                                          188 20$:
                                                         : NOW LOOP LOOKING FOR END OF NAME
                                  OOEA
                                  00EA
    FF7A CF
                                          189
                                                                   (R3),#NTRMS,TRMS
                                                                                                ; LOOK FOR A TERMINATOR
                                                         LOCC
                             12
                                  00F0
                                          190
                                                         BNEQ
                                                                                                : FOUND ONE
```

OAD			M 10
-000		MAIN PROGRAM	16-SEP-1984 01:56:34 VAX/VMS Macro V04-00 Page 5 5-SEP-1984 01:53:31 [MCLDR.SRCJLALOAD.MAR;1 (3)
	F3 52	D6 00F2 191 F5 00F4 192 00F7 193	INCL R3 ; BUMP CHAR. POINTER SOBGTR R2,20\$ ; TRY NEXT CHAR.
	54 52	00F7 194 30\$: C2 00F7 195 00FA 196	; HAVE A TERMINATOR OR REACHED END OF LINE SUBL R2,R4 ; R4 CONTAINS LENGTH OF NAME
	58	00FA 197 D4 00FA 198	; LOOK FOR SWITCH CLRL R8 ; INIT. FOR SEARCH THRU SWITCH TABLE ; AND ALSO AS DEFAULT
	63 52 2F 36	3A 00FL 200 13 0100 201 0102 202	LOCC #A'A'/',R2,(R3) BEQL 60\$; NO SWITCH - USE DEFAULT
	51 50 1E 56 50 61 50 20 56 50	00FC 199 3A 00FL 200 13 0100 201 0102 203 0102 203 D6 0102 204 D7 0104 205 13 0106 206 7D 0108 207 3A 010B 208 C2 010F 209 0112 210 0112 211 50\$: 7D 0112 212 2D 0118 213 D5 011E 214 13 0120 215 F2 0126 217 0126 218 55\$: 9E 0126 219	; HAVE SLASH. RO,R1 CONTAIN REMAINING STRING DESC. INCL R1 ; MOVE PAST SLASH DECL RO ; DEC. COUNT BEQL 55\$ ; ERROR - INVALID SWITCH MOVQ RO,R6 ; COPY DESC. INTO R6,R7 LOCC M^A',RO,(R1) ; LOCATE END OF SWITCH SUBL RO,R6 ; CALCULATE LENGTH OF SWITCH
•	52 FEF9 CF48 53 52 00 67 56 50 16 EC 58 03	0112 211 50\$: 7D 0112 212 2D 0118 213 D5 011E 214 13 0120 215 F2 0122 216	; COMPARE AGAINST NEXT ENTRY IN SWITCH TABLE MOVQ SWTBL[R8],R2 ; GET LEN. AND ADDR. OF SWITCH IN R2,R3 CMPC5 R6,(R7),#0,R2,(R3) TSTL R0 ; IF R0 = 0, THEN SUBSTRING MATCH BEQL 60\$ AOBLSS #3,R8,50\$
	0000010C'EF FF09 CF 00000106'EF 0E 5D	13 0120 215 F2 0122 216 0126 217 0126 218 55\$: 9E 0126 219 B0 012F 220 11 0136 221 0138 222 0138 223 60\$: 7E 0138 224 7D 013F 225 D5 0142 226	; ERROR - INVALID SWITCH MOVAB INVSWM5G,OUTRAB+RAB\$L_RBF ; ADDRESS OF MESSAGE MOVW #INVSWMSGSZ,OUTRAB+RAB\$W_RSZ ; SIZE OF MESSAGE BRB 90\$ ; OUTPUT MESSAGE
	51 00000128'EF 61 54 54 05 51 FEBE CF	0138 223 60\$: 7E 0138 224 7D 013F 225 D5 0142 226 12 0144 227 7E 0146 228	; HAVE NAME DESCRIPTOR IN R4,R5; SWITCH VALUE IN R8  MOVAQ DEVDESC,R1 ; GET ADDRESS OF DEVICE DESCRIPTOR  MOVQ R4,(R1) ; COPY INFO. INTO DEVICE DESC.  TSTL R4 ; IS LENGTH NON-ZERO?  BNEQ 70\$ ; YES  MOVAQ DEFDEVDESC,R1 ; NO, USE DEFAULT DESCRIPTOR
	14 50	12 0144 227 7E 0146 228 0148 229 014B 230 70\$: 014B 231 014B 232 E9 015C 233	; ASSIGN A CHANNEL TO DEVICE \$ASSIGN_S DEVNAM = (R1),- ; DEVICE NAME CHAN = DEVCHAN ; CHANNEL BLBC R0,80\$ ; ERROR
	7E 58 01 00000130'EF 00000000'EF 02 32 50	015F 235 C1 015F 236 3F 0163 237 FB 0169 238 E8 0170 239	; NOW SEND A REQUEST TO LOADER ADDL3 #1,R8,-(SP) ; PUSH MICROCODE TYPE PUSHAW DEVCHAN ; PUSH CHANNEL ADDRESS CALLS #2,LPA\$\$SNDLDRQ ; SEND LOAD REQUEST (& DEASSIGN CHANNEL) BLBS R0,95\$ ; SUCCESS, REPROMPT
0000	0010C'EF 00000132'EF	B0 012F 220 11 0136 221 0138 222 0138 223 60\$: 7E 0138 224 7D 013F 225 D5 0142 226 12 0144 227 7E 0146 228 014B 230 014B 231 014B 231 014B 232 E9 015C 233 015F 235 C1 015F 235 C1 015F 236 3F 0163 237 FB 0169 238 E8 0170 239 0173 240 0173 241 0173 242 0173 243 0173 244 9E 018A 245 0195 247 90\$:	<pre>; USER ERROR IN RO - GET MESSAGE \$GETMSG_S</pre>

Page

MAIN PROGRAM

16-SEP-1984 01:56:34 VAX/VMS Macro V04-00 5-SEP-1984 01:53:31 EMCLDR.SRCJLALOAD.MAR:1

248 249 250 95\$: 251 252 98\$: 253 255 100\$: SPUT BLBC BRW RAB = OUTRAB RO 100\$ 10\$ 06 50 FF07

: ERROR : SUCCESS - REPROMPT

; EXIT WITH SUCCESS MOVZWL SAWSS\$\_NORMAL,RO 01A8 01AB 01AB 00' 30 RET

LAL VO4

```
16-SEP-1984 01:56:34 VAX/VMS Macro V04-00 5-SEP-1984 01:53:31 [MCLDR.SRC]LALOAD.MAR;1
                CVTUPC - CONVERT LINE TO UPPER CASE
                       01AC
01AC
01AC
01AC
01AC
01AC
01AC
                                                  .SBTTL CVTUPC - CONVERT LINE TO UPPER CASE
                                 FUNCTIONAL DESCRIPTION:
                                                 THIS ROUTINE CONVERTS THE INPUT LINE TO UPPER CASE
                                         CALLING SEQUENCE:
                                                 BSBW
                                         INPUT PARAMETERS:
                                 267 : II
268 :
270 :
271 : 0
273 :
275 : S
276 : S
278 : --
                                                            CONTAINS SIZE OF LINE
                                                 R1
                                                            CONTAINS ADDRESS OF LINE
                                         OUTPUT PARAMETERS:
                                                 NONE
                                      ; SIDE EFFECTS:
                                                 RO, R1 ARE NOT PRESERVED
                       01AC
                                 280
61 8F
                                 281 CVTUPC: CMPB
                                                                                             ; IS IT BEFORE LOWERCASE A?
                                                            (R1), #LOWER_A
                                 282
283
284
           09
                 1F
                       01B0
                                                 BLSSU
                                                            20$
                                                                                             ; YES
          61
03
20
51
7A 8F
                 91
                                                 CMPB
                                                             (R1) , #LOWER_Z
                                                                                             : IS IS AFTER LOWERCASE Z?
                       01B6
01B8
01BB
01BD
                 1A
                                                 BGTRU
                                                            20$
                                                                                             ; YES
                                285
286 20$:
287
288
289
290
291
292
                 8A
D6
F5
05
                                                                                             : CLEAR LOWERCASE BIT
: MOVE TO NEXT CHARACTER
                                                            #^X20,(R1)
    61
                                                 BICB
                                                 INCL
      EC 50
                                                 SOBGTR
                                                            RO, CVTUPC
                                                                                             REPEAT
                       01C0
                                                 RSB
                       01C1
01C1
01C1
01C1
```

.END

START

B 11

LALOAD Symbol table			
\$\$.TAB \$\$.TABEND		R 01	RAB\$L_R
\$\$.TMP	= 00000000	R 01	RAB\$L_R RAB\$V_C RAB\$V_P
\$\$.TMP1 \$\$.TMP2	= 00000001 = 000000CF		RABSW R
\$\$.TMPX	= 00000009	R 03	RMS\$ EO
\$\$.TMPX1 \$\$T1	= 0000000A = 0000001		START Swibl
ADSW	000004E	R 04	SYSSASS
ADSWSIZ   Buffer	= 0000000£ 00000132	R 01	SYS\$CON Sys\$get
BUFFERDSC	0000000	R 04	SYS\$GE1
CVTUPC		R 04 R 04	SYS\$OPE Sys\$put
DASWSIZ	= 0000000E	_	TRMS
DEFDEV   DEFDEVDESC	0000002 <b>8</b> 0000000 <b>8</b>		
DEFDEVSZ DEVCHAN	= 00000004		
DEVDESC	00000130 00000128		
FABSB_FNS	= 00000034 = 0000003		
FABSB_FNS FABSC_BID FABSC_BLN FABSC_SEQ	= 00000050		
FABSC_SEQ FABSC_VAR	= 00000000 = 0000002		
FAB\$L_ALQ	= 00000010		
FABSL_FNA	= 0000002C = 0000004		
FABSV_CHAN_MODE	= 0000002		
FABSV_CHAN_MODE FABSV_CR FABSV_FILE_MODE FABSV_GET FABSV_LNM_MODE	= 00000001 = 0000004		
FAB\$V_GET	= 00000001		
FAB\$V_LNM_MODE   FAB\$V_PUT	= 00000000 = 0000000		
FAB\$W_GBC	= 00000048		
INFAB INRAB	0000000 00000A0	R 01 R 01	
INVSWMSG	0000033		
INVSUMSGSZ LOWER_A	= 0000000E = 0000061		
ILOWER Z	= 000007A	•	
LPA\$\$5NDLDRQ MRSW	00000041	X 04 R 04	
MRSWSIZ	= 0000000D		
NTRMS OUTFAB	= 0000003 0000050	R 01	
OUTRAB	000000E4	R 01	
PROMPTSZ	0000002C = 00000007	R 04	
RAB\$B_PSZ	= 0000034		
RAB\$B_RAC RAB\$C_BID	= 0000001E = 0000001		
RABSC_BLN PARSC_SEO	= 00000044		
RAB\$L_CTX	= 00000000 = 0000018		
RABSC_BID RABSC_BLN RABSC_SEQ RABSL_CTX RABSL_PBF RABSL_RBF	= 00000030		
MADEL_MOT	= 00000028		

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LAL VO4

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LALOAD Psect synopsis 16-SEP-1984 01:56:34 VAX/VMS Macro V04-00 Pa 5-SEP-1984 01:53:31 [MCLDR.SRC]LALOAD.MAR;1

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LAL VO4

Psect synopsis

PSECT name Allocation PSECT No. Attributes ABS 00000000 0.) NOPIC CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE 562.) LPADATA 00000232 EXE EXE EXE NOPIC REL USR CON LCL NOSHR RD WRT NOVEC LONG 02 03 SABS\$ 0000000 2.) 3.) NOPIC USR CON ABS LCL NOSHR RD WRT NOVEC BYTE SRMSNAM 00000013 19.) WRT NOVEC BYTE NOPIC USR CON REL LCL NOSHR RD LPACODE 00000101 04 NOPIC ÊXÈ USR CON LCL NOSHR RD NOWRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.09	00:00:00.37
Command processing Pass 1	100 197	00:00:00.47 00:00:05.02	00:00:01.05 00:00:10.38
Symbol table sort Pass 2	0 66	00:00:00.35 00:00:01.11	00:00:00.58 00:00:02.45
Symbol table output	10	00:00:00.07	00:00:00.08
Psect synopsis output Cross-reference output	Š	00:00:00.03 00:00:00.00	00:00:00.03 00:00:00.00
Assembler run totals	406	00:00:07.15	00:00:14.94

The working set limit was 1050 pages. 24588 bytes (49 pages) of virtual memory were used to buffer the intermediate code. There were 20 pages of symbol table space allocated to hold 344 non-local and 16 local symbols. 292 source lines were read in Pass 1, producing 21 object records in Pass 2. 27 pages of virtual memory were used to define 21 macros.

! Macro library statistics !

Macro library name

Macros defined

\_\$255\$DUA28:[SYSLIB]STARLET.MLB:2

18

593 GETS were required to define 18 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:LALOAD/OBJ=OBJS:LALOAD MSRCS:LALOAD/UPDATE=(ENHS:LALOAD)

0233 AH-BT13A-SE

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